



**Government of Odisha
Office of Special Relief Commissioner**

NOTICE INVITING EXPRESSION OF INTEREST (EOI)

No. 4797 / R&DM(DM), Dt. 02.09.2026

The Office of the Special Relief Commissioner, Government of Odisha, invites Expression of Interest (EOI) from reputed, technically competent and experienced Agencies/ Firms/ System Integrators having proven experience in Early Warning Dissemination Systems, Public Warning Systems, Emergency Communication Systems, Mass Notification Systems and Disaster Management Communication Technologies for Selection Agency for Establishment, Upgradation, Integration, Operation and Maintenance of Early Warning Dissemination System (EWDS) in the State.

- Detailed document with terms & conditions of EOI can be downloaded from **<https://srcodisha.nic.in>**
- **Last date for submission of EOI: 25th September, 2026 by 15:00 Hrs**
- **Mode of Submission of EOI:** Online via email:srcodishagov@gmail.com/ Sealed hardcopy to the following address in Registered Post

Address

Office of the Special Relief Commissioner, Rajiv Bhawan, Unit-5, Bhubaneswar, Odisha, Pin-751001

Sd/-
Special Relief Commissioner



**EXPRESSION OF INTEREST (EOI) For Selection of Agency for
Establishment, Upgradation, Integration, Operation and
Maintenance of Early Warning Dissemination System (EWDS)**

Expression of Interest-EOI for EWDS

OFFICE OF SPECIAL RELIEF COMMISSIONER
GOVERNMENT OF ODISHA
RAJIV BHAWAN, BHUBANESWAR, ODISHA

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GOVERNMENT OF ODISHA
OFFICE OF THE SPECIAL RELIEF COMMISSIONER
ODISHA, BHUBANESWAR

EXPRESSION OF INTEREST (EOI)

**For Selection of Agency for Establishment, Upgradation,
Integration, Operation and Maintenance of
Early Warning Dissemination System (EWDS)**

EOI Reference No.	
Date of Issue	
Last Date for Submission	
Date & Time of Opening	
Mode of Submission	e-Procurement / as specified by the Office of the Special Relief Commissioner

1. INVITATION FOR EXPRESSION OF INTEREST

The Office of the Special Relief Commissioner, Odisha, Government of Odisha, invites Expression of Interest (EOI) from reputed, technically competent and experienced agencies/firms/System Integrators having proven experience in Early Warning Dissemination Systems, Public Warning Systems, Emergency Communication Systems, Mass Notification Systems and Disaster Management Communication Technologies.

The proposed assignment envisages strengthening the State's existing Early Warning Dissemination System (EWDS) through appropriate technological upgradation, expansion, integration, operation and maintenance so as to ensure timely, reliable, location-specific and last-mile dissemination of disaster warnings to vulnerable communities across Odisha.

The proposed system shall be designed to support multiple hazards and multiple communication channels and shall be capable of integration with existing and emerging disaster early-warning systems of the Government of Odisha and authorised agencies.

2. BACKGROUND

Odisha is highly exposed to multiple natural and climate-induced hazards, including cyclones, floods, storm surge, lightning, heatwave, coldwave, landslides and other emergencies.

The State has established a comprehensive disaster warning and response architecture under the aegis of the Office of the Special Relief Commissioner, supported by the State Emergency Operation Centre (SEOC), District Emergency Operation Centres (DEOCs), district administration, line departments and other stakeholders.

Expression of Interest – Early Warning Dissemination System (EWDS) | Office of the Special Relief
Commissioner, Odisha

Odisha has also been a pioneer in establishing an Early Warning Dissemination System aimed at ensuring that warnings generated at the State level reach vulnerable communities at the last mile. The proposed initiative seeks to modernise and strengthen this architecture in line with current communication technologies and the growing need for location-specific and impact-based warnings.

The proposed EWDS should therefore be capable of integrating, as applicable, with SEOC/DEOC systems, SATARK and other authorised early warning systems, Impact Based Forecasting systems, Common Alerting Protocol (CAP), Cell Broadcasting, Mass Messaging Systems, GIS-based warning systems, mobile applications, public warning devices and other communication platforms authorised by the Government of Odisha.

3. OBJECTIVES

1. To strengthen the last-mile dissemination of disaster warnings across Odisha.
2. To ensure rapid dissemination of warnings to vulnerable populations in affected or potentially affected areas.
3. To establish a multi-channel and technology-enabled public warning system(sirens).
4. To enable location-specific/geographically targeted warning dissemination.
5. To strengthen communication between the SEOC, DEOCs and field-level warning dissemination infrastructure.
6. To integrate different warning-generation and dissemination platforms through standardised interfaces.
7. To improve redundancy and resilience of the warning communication infrastructure.
8. To ensure continued operation during disasters, including situations involving power and telecommunications disruption.
9. To establish effective monitoring, logging and reporting of warning dissemination.
10. To provide a scalable architecture capable of accommodating future technologies.

4. KEY DELIVERABLES

- 1) Setting up an EWDS connecting SEOC, DEOCs, BEOCs and remote locations operating on high redundant networks and providing a platform of two-way communication and data transferability.
- 2) **Siren Network:** Installation of High-Power Sirens System (IP Based) at State Emergency Operation Center (SEOC), District Emergency Operation Centres (DEOCs), Block Emergency Operation Center (BEOCs) and at various location upto 2 Kms from the coastline of six coastal districts namely; Balasore, Bhadrak, Kendrapara, Jagatsinghpur, Puri and Ganjam of Odisha. Besides, sirens may be installed at other vulnerable locations.
- 3) **Power Connectivity:** Provision of robust power connectivity and power backup system for all field installations having minimum 72 hours.
- 4) **Tele Connectivity:** Four ways connectivity to alert Sirens 2 wired (Leased Line) and 2 wireless (Jio/ BSNL/ Airtel/ Vodafone Idea).
- 5) **CCTV Cameras:** IP based 360 degree remotely operable CCTV Cameras at all Project locations along with a Video Management System and Analytics with proper Licenses
- 6) **Awareness Display System:** Installation of outdoor and indoor Display System at DEOCs and BEOCs

- 7) **Integrated Command Control Application (ICCC) and Decision Support System (DSS):** Installation Integrated Command Control Application (ICCC) and Decision Support System (DSS) for Disaster Management at SEOC and DEOC.
- 8) **Chat Bots:** Deployment of Chat bots and other 2 NLP based applications
- 9) **Operation & Maintenance:** Operation & Maintenance (O&M) of the Project for 5 years after its installation/ commissioning including deployment of required manpower.
- 10) **Watch & Ward:** Provision for Watch & Ward of the project to control theft of different components
- 11) **Provision of VPN:** State-wide secure VPN based Wide Area Network connecting all Project locations
- 12) **Integration with External Data Source:** Integration with third party external data sources like IMD, INCOIS, CWC and IoT Sensors like AWS, ARG and River Gauges for real time and forecasted Weather data
- 13) **Mobile Application:** Citizen Portal and Citizen/ Field Responder Workforce Mobile Application
- 14) **Satellite-based communication:** Provision of Radio/Satellite-based communication links.
- 15) **GIS Technology:** GIS Spatial Analysis for Weather Forecasts and Nowcasts received from external agencies and Satellite images
- 16) **Network Monitoring System:** Network Monitoring System (NMS) for all the Project Assets with proper Asset License
- 17) **Integration with CAP SACHET Platform:** Integration of EWDS System with CAP SACHET Platform of Government of India.

Broad Scope of Activities

4.1 Assessment of Existing EWDS

- 1) Inventory of existing EWDS assets.
- 2) Assessment of existing sirens and communication infrastructure.
- 3) Assessment of DMR/radio infrastructure.
- 4) Assessment of satellite communication infrastructure.
- 5) Assessment of control-room infrastructure.
- 6) Assessment of connectivity and power backup.
- 7) Assessment of existing software/platforms.
- 8) Identification of obsolete/non-functional equipment.
- 9) Identification of coverage gaps and technological/operational gaps.

A comprehensive Existing System Assessment and Gap Analysis Report shall be prepared.

4.2 System Design and Architecture

- 1) Centralized command and control.
- 2) Distributed warning dissemination.
- 3) Location-based warning.
- 4) Multi-hazard and multi-channel capability.
- 5) Redundant communication.
- 6) Secure access and real-time monitoring.
- 7) GIS integration and API-based interoperability.
- 8) Disaster recovery, business continuity and future scalability.

5. LAST-MILE WARNING DISSEMINATION

- Alert sirens and electronic/voice-enabled sirens.
- Public Address Systems.
- Voice announcements.
- SMS and other mobile messaging mechanisms.
- Cell Broadcast, subject to applicable regulatory and telecom requirements.
- Mobile applications and web-based alerts.
- Digital display boards.
- Radio and satellite communication.
- Other wireless communication systems.
- Community-based warning systems and other technologies approved by the Government.

6. CELL BROADCAST AND LOCATION-BASED ALERTING

The proposed system should have the capability of integration with Cell Broadcast System (CBS) and other location-based public warning mechanisms. The architecture should also support integration with the Common Alerting Protocol (CAP) or equivalent standardised warning protocols, subject to applicable technical and regulatory requirements.

7. INTEGRATION WITH SATARK AND OTHER SYSTEMS

- SATARK and other authorised early warning systems.
- SEOC/DSS and DEOC systems.
- GIS platforms.
- Impact Based Forecasting systems.
- CAP-based systems.
- Cell Broadcasting and Mass Messaging systems.
- Weather/hazard information systems.
- Other systems identified by the Office of the Special Relief Commissioner.

The bidder shall clearly describe its proposed API and interoperability framework.

8. UNIFIED COMMAND AND CONTROL PLATFORM

- Alert creation, approval and dissemination.
- Geographic targeting and multilingual message management.
- Device and system-health monitoring.
- User management and role-based access.
- Event logging, alert history and audit trail.
- GIS visualisation, dashboards and reporting.
- Safeguards against unauthorised generation or dissemination of public warnings.

9. FIELD INFRASTRUCTURE

- Alert siren towers and electronic/voice-enabled sirens.
- Public Address Systems.
- DMR/radio infrastructure.

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- Satellite communication terminals.
- Communication gateways and network equipment.
- Solar power systems, UPS and battery backup.
- Controllers and digital display boards.
- Other necessary field infrastructure.

10. COMMUNICATION REDUNDANCY

Considering the disaster-prone nature of Odisha, the EWDS shall incorporate appropriate communication redundancy. The bidder should propose suitable combinations of cellular, radio, satellite, IP-based, fibre, wireless and other appropriate technologies. Critical warning infrastructure should have alternative communication paths wherever technically and economically feasible.

11. POWER BACKUP

- UPS and battery backup.
- Solar power and other appropriate backup sources.
- Surge and lightning protection.
- Environmental protection for field equipment.
- Adequate backup duration for critical equipment.

12. GIS-BASED MONITORING

- Asset mapping and device location.
- Warning-zone identification and population coverage.
- Vulnerability and coverage-gap analysis.
- Device health monitoring.
- Field asset management.
- Location-specific warning dissemination.

13. CYBERSECURITY

- Role-based access control and appropriate authentication.
- Encryption and secure APIs.
- Audit logs and network security.
- Vulnerability assessment and security testing.
- Data backup and disaster recovery.
- Secure remote access.
- Protection against unauthorised activation.

14. INSTALLATION, INTEGRATION AND COMMISSIONING

- Supply, transportation and installation.
- Configuration and system integration.
- Civil/electrical works, where required.
- Testing, acceptance testing and performance testing.
- User acceptance testing.

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- Commissioning and handover.
- As-built drawings, asset registers, configuration documents and system documentation.

15. TRAINING AND CAPACITY BUILDING

- Office of the Special Relief Commissioner personnel.
- SEOC and DEOC personnel.
- District Administration and relevant line departments.
- System administrators and other designated users.

Training shall cover system operation, alert dissemination, monitoring, troubleshooting, cybersecurity, preventive maintenance and emergency procedures.

16. OPERATION AND MAINTENANCE

- Preventive and corrective maintenance.
- Remote and field monitoring/support.
- Equipment replacement.
- Software and firmware updates.
- Periodic testing of warning devices.
- Emergency response.
- Performance reporting and SLA-based support.

17. EXPECTED DELIVERABLES

- Inception Report.
- Existing EWDS Assessment Report.
- Gap Analysis Report.
- Field Survey Report.
- GIS and Coverage Assessment.
- Detailed System Architecture.
- Integration Architecture.
- Implementation Plan.
- Equipment and Asset Inventory.
- Installation and Commissioning Reports.
- Integration and Testing Reports.
- Cybersecurity Assessment.
- Training and Capacity-Building Programme.
- O&M Manual.
- Disaster Recovery and Business Continuity Plan.
- As-built documentation.
- Asset Register.
- Periodic Performance Reports.

18. ELIGIBILITY CRITERIA

18.1 Legal Constitution

- Must be a registered company in India or globally for at least 5 years.
- A Government/PSU organisation; or
- A recognised System Integrator/technology provider; or
- A consortium, if permitted by the Office of the Special Relief Commissioner.

18.2 Certifications

- ISO 9001:2015 and ISO/IEC 27001 certification for information security.

18.3 Relevant Experience

- Early Warning Dissemination Systems.
- Public Warning Systems.
- Mass Notification Systems.
- Emergency Communication Systems.
- Disaster Management Communication Systems.
- Cell Broadcasting.
- Command and Control Systems.
- Large-scale ICT/System Integration.

18.4 Government Project Experience

The applicant should have successfully implemented similar projects for Central/State Governments, Disaster Management Authorities, Government PSUs, Local Governments or international development organisations, as applicable.

18.5 Financial Capacity

The applicant shall have an average annual turnover of at least ₹50 crore during the last three financial years.

19. CONSORTIUM / JOINT VENTURE

The Office of the Special Relief Commissioner may permit consortium participation where the project requires specialised expertise. The final EOI shall specify the maximum number of members, lead-member requirements, experience and financial requirements, roles and responsibilities, consortium agreement requirements, and joint and several liability.

20. DOCUMENTS TO BE SUBMITTED

20.1 Organisational Documents

- Certificate of incorporation/registration.
- PAN and GST registration.
- Registered address and organisation profile.
- Authorisation of signatory.

20.2 Financial Documents

- Audited financial statements.
- Turnover certificate.
- Net-worth certificate, where required.
- Income-tax documents, as applicable.

20.3 Technical Credentials

- Name of client and project title.
- Location and project value.
- Scope and technology deployed.
- Date of award and completion/current status.
- Completion certificate/work order.
- Client contact details.

20.4 Technical Concept Note

- Proposed EWDS architecture.
- Last-mile dissemination approach.
- Communication redundancy.
- Cell Broadcast/CAP integration.
- GIS and cybersecurity.
- Integration with existing systems.
- O&M strategy and scalability.

21. EOI EVALUATION

The EOI may be evaluated on a Quality and Credentials Based approach. The following is an indicative evaluation framework:

Evaluation Parameter	Maximum Marks
Relevant organisational experience	15
Experience in EWDS/Public Warning Systems	25
Government/Disaster Management project experience	15
Technical approach and proposed architecture	20
System integration and interoperability experience	10
Financial strength	10
Technical manpower	5
Total	100

The Office of the Special Relief Commissioner may prescribe a minimum qualifying score, for example 70 marks, for shortlisting.

22. SHORTLISTING OF AGENCIES

Based on the EOI evaluation, suitable agencies may be shortlisted for participation in the subsequent Request for Proposal (RFP) process. Shortlisting shall not constitute an assurance or commitment regarding award of the final contract.

23. INDICATIVE PROCUREMENT STRUCTURE

11. Stage I – EOI: Market assessment, evaluation of credentials and shortlisting.
12. Stage II – RFP: Detailed technical and commercial proposals from shortlisted agencies.
13. Stage III – Technical Evaluation: Technical proposal assessment, demonstrations, proof of concept and/or site visits, as applicable.
14. Stage IV – Financial Evaluation: Evaluation of financial proposals of technically qualified bidders.
15. Stage V – Award: Letter of Award/Work Order and contract agreement.
16. Stage VI – Implementation: Survey, design, supply, installation, integration, testing and commissioning.
17. Stage VII – O&M: Comprehensive maintenance and SLA-based support.

24. IMPORTANT NOTE ON TECHNOLOGY

This EOI is intended to identify agencies having the capability to provide an end-to-end and technology-neutral EWDS solution. The Office of the Special Relief Commissioner shall not be bound to adopt any particular technology proposed by an applicant at the EOI stage. Detailed technical specifications, quantities, locations, coverage requirements, communication architecture, SLA, warranty, O&M requirements and commercial conditions shall be finalised in the subsequent RFP.

25. DISCLAIMER

- Accept or reject any or all EOIs.
- Seek clarification from applicants.
- Verify submitted credentials.
- Visit project sites.
- Seek additional information.
- Modify the proposed scope.
- Modify the procurement methodology.
- Cancel or withdraw the EOI.
- Undertake any other action considered necessary in the public interest.

No applicant shall have any claim for compensation or reimbursement solely by virtue of participation in this EOI process.

26. CONTACT DETAILS

Office of the Special Relief Commissioner
Government of Odisha
Bhubaneswar, Odisha

EOI Reference No.	
Contact Officer	
Telephone	
Email	srcodishagov@gmail.com
Last Date for Submission	

**Special Relief Commissioner
Odisha, Bhubaneswar**